

ABSTRACT

[00115] The present invention was developed by a neurosurgeon and seeks to mimic the results of primate neurological research which is indicative of a human's actual neurological control structures and logic. Specifically, the motor proprioceptive and tactile neurophysiology functioning of the surgeon's hands and internal hand control system from the muscular level through the intrafusal fiber system of the neural network is considered in creating the robot and method of operation of the present invention. Therefore, the surgery is not slowed down as in the art, because the surgeon is in conscious and subconscious natural agreement and harmonization with the robotically actuated surgical instruments based on neurological mimicking of the surgeon's behavior with the functioning of the robot. Therefore, the robot can enhance the surgeon's humanly limited senses while not introducing disruptive variables to the surgeon's naturally occurring operation of his neurophysiology. This is therefore also a new field, neurophysiological symbiotic robotics.